ORDER NO. MD0603104C3

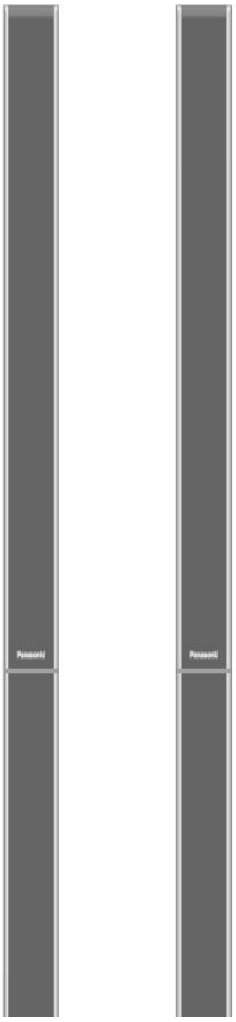
Service Manual

Speaker System

SB-FS61GN

Colour

(S)... Silver Type



SPECIFICATIONS

Specification

Type	2 way, 2 speaker system (Bass-ref.)
Speaker unit	Impedance 4
Full range	6.5 cm Cone type
Tweeter	6 cm Cone type
Input power (IEC)	90 W (Max)
Output sound pressure level	82 dB/W (1.0 m)
Frequency range	85 Hz - 45 kHz (-16 dB)
	100 Hz - 40 kHz (-10 dB)
Dimensions (W x H x D)	250 mm x 1125 mm x 234 mm
Mass	3.6 kg

*Rating with low-cut filter equipped amplifier

Notes :

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ System : SC-HT60EE-S	Music Center System : SA-HT60EE-S
	Front Speaker : SB-FS61GN-S
	Surround Speaker : SB-FS62GN-S
	Center Speaker : SB-PC41GN-S
	Subwoofer : SB-W40P-S
■ System : SC-HT60GN-S	Music Center System : SA-HT60GN-S
	Front Speaker : SB-FS61GN-S
	Surround Speaker : SB-FS62GN-S
	Center Speaker : SB-PC41GN-S
	Subwoofer : SB-W40P-S

SB-FSC61GN-S consists of SB-FS61GN-S(X2), SB-FS62GN-S(X2) & SB-PC41GN-S(X1)

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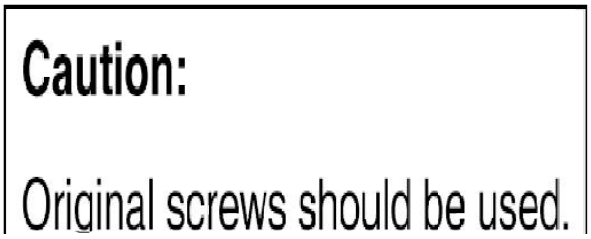
1. Assembling and Disassembling

“ATTENTION SERVICER”
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**
4. **Refer to the Parts No. on the page of “Parts Location and Replacement Parts List” (Section 5), if necessary.**

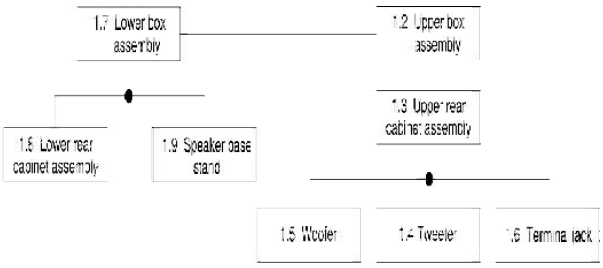


Below is the list of disassembly sections

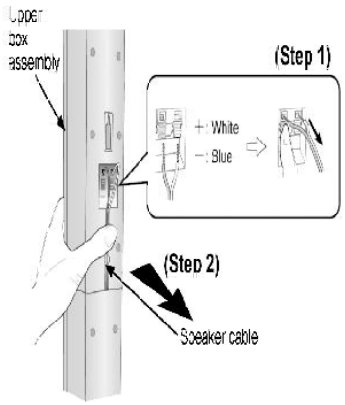
- **Disassembly of Upper box assembly**
- **Disassembly of Front speaker**
- **Disassembly of Tweeter**
- **Disassembly of Woofer**
- **Disassembly of Terminal jack**
- **Disassembly of Lower box assembly**
- **Disassembly of Lower rear cabinet assembly**
- **Disassembly of Speaker base stand**

1.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.



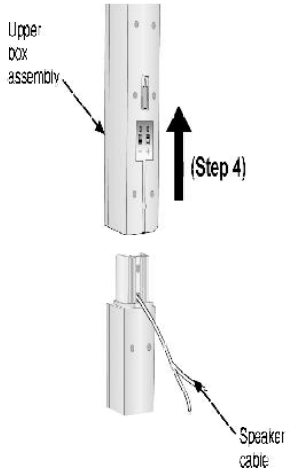
1.2. Disassembly of Upper box assembly



Step 1: Remove the (+) white and (-) blue wires.
Step 2: Pull out the speaker cable from the groove.

Upper

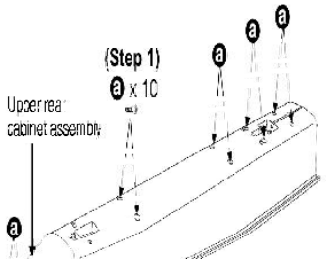
Step 3: Remove 1 screw.



Step 4: Take out the upper box assembly unit as arrow shown.

1.3. Disassembly of Upper rear cabinet assembly

Follow (step 1) to (step 4) in Item 1.2.

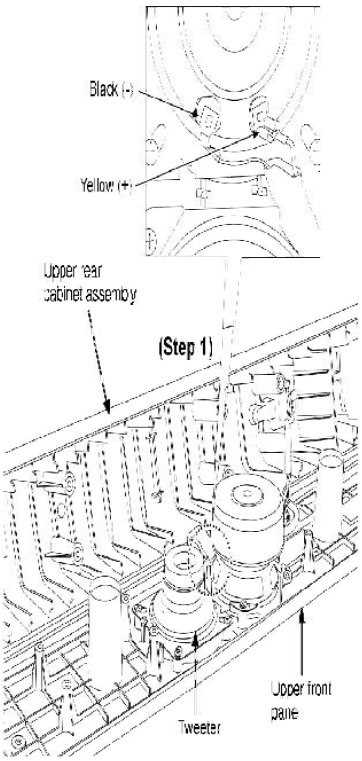


Step 1: Remove 10 screws.

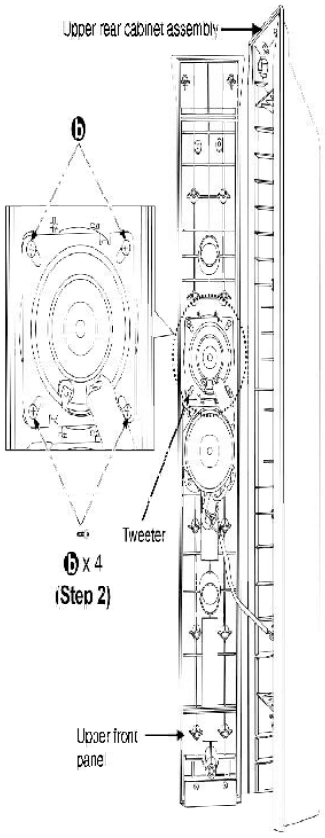
Step 2: Lift out the upper rear cabinet assembly as arrow shown.
Step 3: Detach wire assembly to remove it.

1.4. Disassembly of Tweeter

Follow (step 1) to (step 3) in Item 1.3.



Step 1: Detach the (+) yellow and (-) black wires.

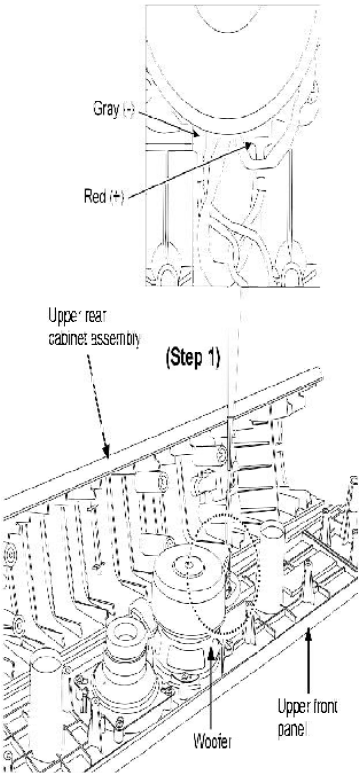


Step 2: Remove 4 screws.

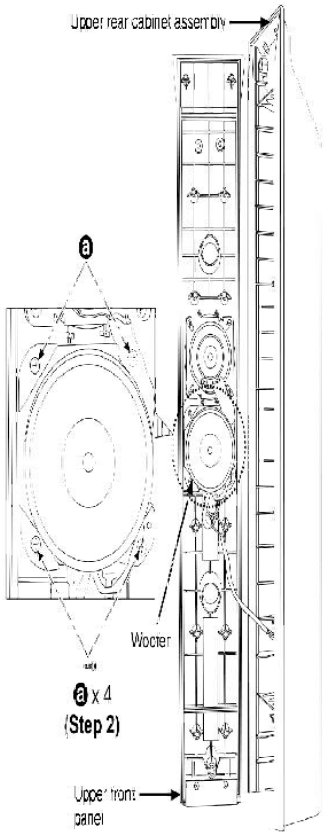
Step 3: Remove tweeter.

1.5. Disassembly of Woofer

Follow (step 1) to (step 4) in Item 1.2.



Step 1: Detach the (+) red and (-) gray wires.

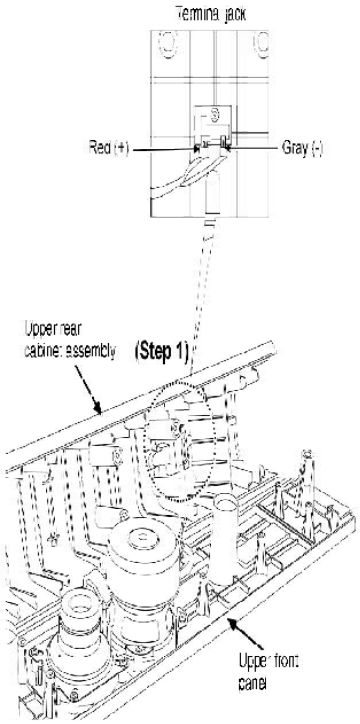


Step 2: Remove 4 screws.

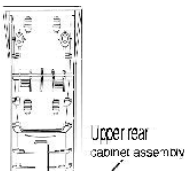
Step 3: Take out the woofer.

1.6. Disassembly of Terminal jack

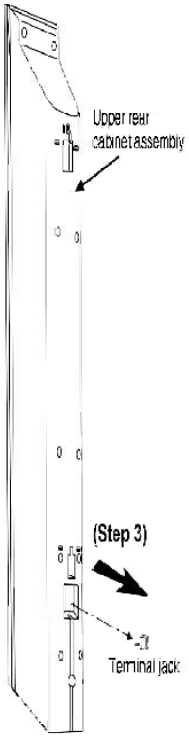
Follow (step 1) to (step 4) in Item 1.2.



Step 1: Detach the (+) red and (-) gray wires.



Step 2: Remove 1 screw.

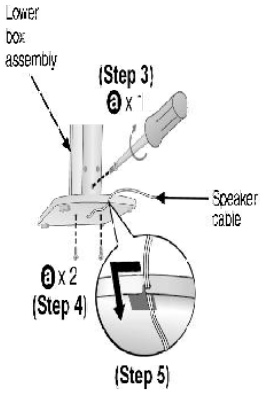


Step 3: Remove the terminal jack.

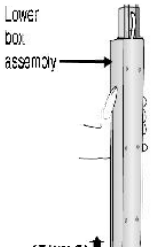
1.7. Disassembly of Lower box assembly

Follow (step 1) to (step 4) in Item 1.2.

Step 1: Pull out the speaker cable from the ridges.
Step 2: Pull out the speaker cable from the inside groove by using hand.



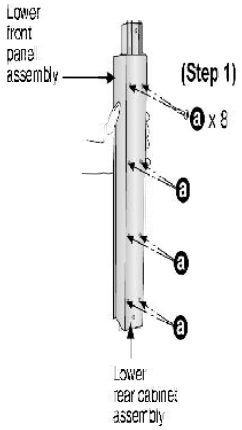
Step 3: Remove 1 screw.
Step 4: Remove 2 screws.
Step 5: Pull out the speaker cable from the groove as arrow shown.



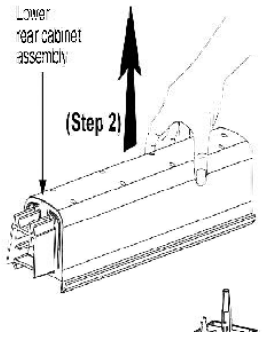
Step 6: Remove the lower box assembly as arrow shown.
Step 7: Pull out the speaker cable.

1.8. Disassembly of Lower rear cabinet assembly

Follow (step 1) to (step 4) in Item 1.2.
Follow (step 1) to (step 7) in Item 1.7.



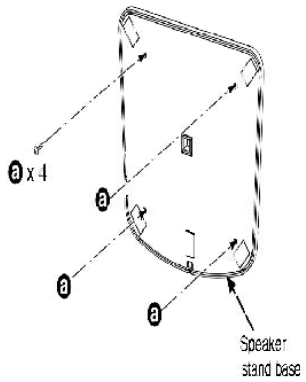
Step 1: Remove 8 screws.



Step 2: Take out the lower rear cabinet assembly.

1.9. Disassembly of Base stand assembly

Follow (step 1) to (step 4) in Item 1.2.
Follow (step 1) to (step 6) in Item 1.7.



2. Connection of the Speaker Cables

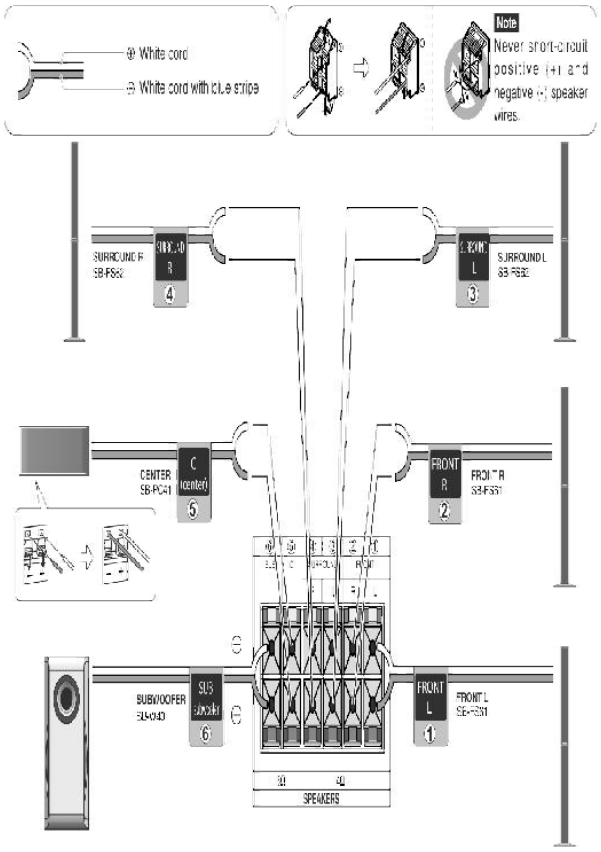
- Be sure to connect speaker cables before connecting the AC power supply cord.

- The load impedance of any speaker used with this unit must be 4 .

- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Strip off the outer covering, and twist the center conductor. Make sure the bare ends of the wires are not unravelled. (If they are, twist them tight again.)

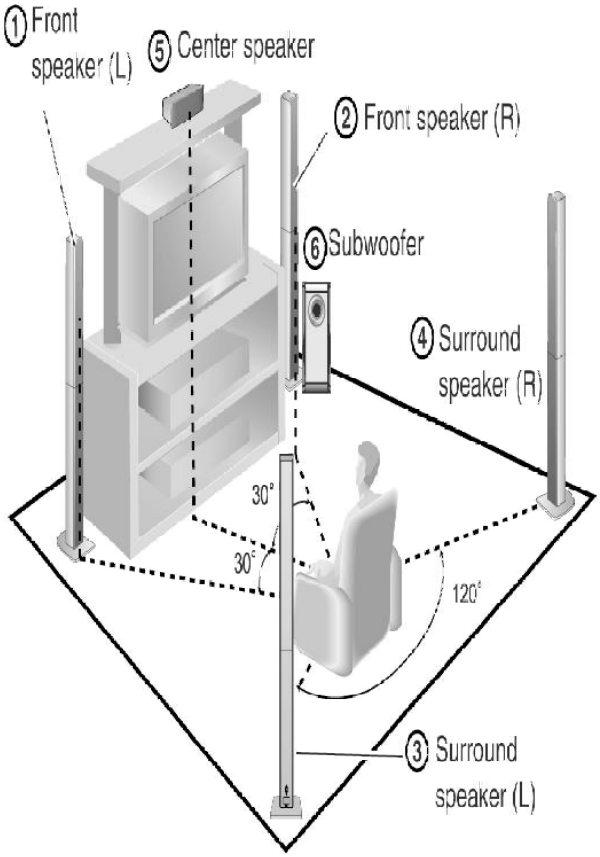
2. Insert the wire to the rear panel of the unit and close the lever.



Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.

- Be sure to connect only positive (white) wires to positive (+) terminals and negative (blue) wires to negative (-) terminals.
Incorrect connection can damage the speakers.



Positioning the speakers

How you set up your speakers can affect the bass and the sound field.

Note the following points:

- Place the speakers on flat secure bases.

- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with a thick curtains.

Note

Keep your speakers at least 10 mm away from the system for proper ventillation.

Place the front, center and surround speakers at approximately the same distance from the seating position.

The angles in the diagram are approximate.

Front speakers (left, right)

Place on the left and right of the TV at seated ear height so that there is good coherency between the picture and sound.

Center speaker

Place underneath or above the center of the TV. Aim the speaker at the seating area.

Surround speakers (left, right)

Place on the side of or slightly behind the seating area, higher than ear level.

Subwoofer

The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV. Note that some experimentation can yield the smoothest low frequency performance. Placement near a corner can increased the apparent output level, but can result in unnatural bass.

If irregular colouring occurs on your television

The supplied speakers are designed to be used close to a television, but the picture may be affected with some televisions and setup combinations.

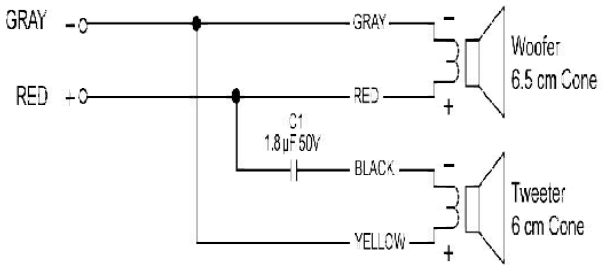
If this occurs, turn the television off for about 30 minutes

The television's demagnetising function should correct the problem. If it persists, move the speakers

further away from the television.

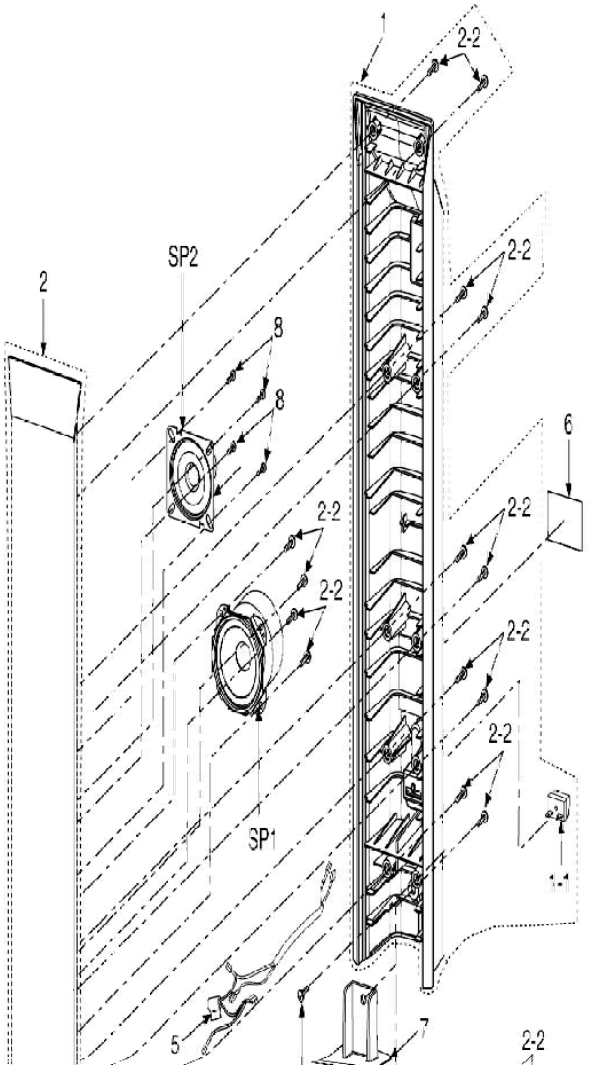
> **Caution**
>
> - The main unit and supplied speakers are only to be used as indicated in this manual. Failure to do so may lead to damage to the receiver and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.
> - Do not attempt to attach these speakers to walls using methods other than those described in this manual.

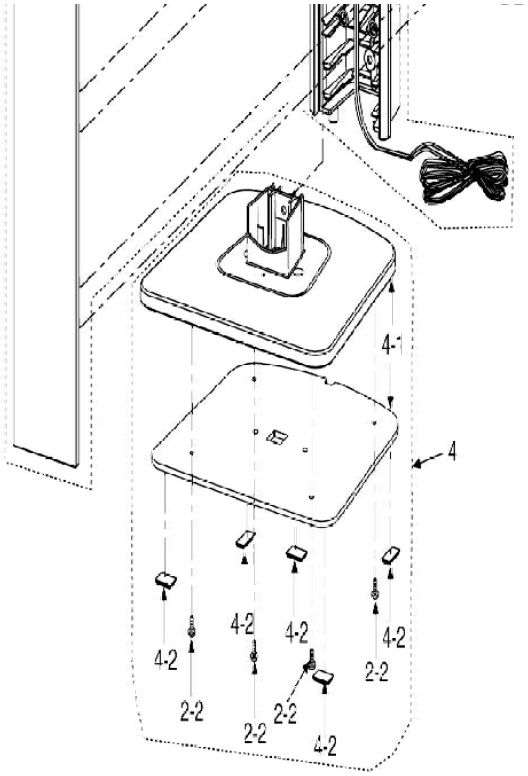
3. Connection of Wiring Diagram



4. Exploded view

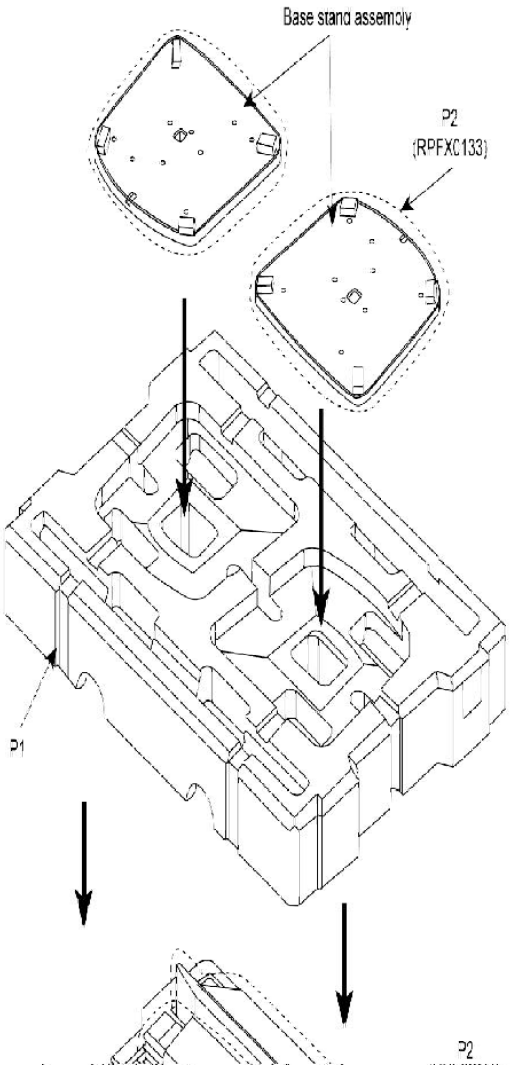
4.1. Cabinet Parts Location


1
2-2
SP2
2
8
8
2-2
2-2
6
2-2
2-2
2-2
SP1
5
7
2-2



4.2. Packaging

Note: The diagram below shows the packaging for SB-FS61GN-S.



5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only

manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYKV0080A-S	UPPER R/CAB. ASS'Y	[M]
1-1	K4BC02B00017	TERMINAL JACK	[M]
2	RYPV0159A	UPPER F/PANEL ASS'Y	[M]
2-1	RGKX0360-S	ORNAMENT BADGE	[M]
2-2	XTB3+10GFJ	SCREW	[M]
3	RYPV0172A-S	LOWER BOX ASS'Y	[M]
4	RYPV0178-S	STAND BASE ASS'Y	[M]
4-1	RGPX0238-S1	BASE COVER	[M]
4-2	RKA0181-K	LEG CUSHION	[M]
5	REEX0571	TRANSIT WIRE	[M]
6	RGNV0201A-S	SPEC LABEL	[M]
7	RGPX0239-K	BOTTOM COVER	[M]
8	XTB3+8GFJ	SCREW	[M]
		CAPACITORS	
C1	ECEA1HAY1R8	1.8uf 50V	[M]
		PACKING MATERIALS	
P1	RPNV0103	POLYFOAM	[M]
P2	RPFX0133	MIRAMAT BAG (BASE)	[M]
P2	RPFX0159	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	REEX0449B-1	SPEAKER CORD (4M)	[M]
A2	XSN5+12FN	SCREW	[M]
		SPEAKER	
SP1	EAS65PL127A	WOOFER	[M]
SP2	EAST6PH08K6	TWEETER	[M]

FLE0603W/S